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PROPOSAL # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

APPROVAL DATE \_\_\_\_\_\_\_\_\_\_\_

EXPIRATION DATE \_\_\_\_\_\_\_\_\_

**Northeastern University Protocol for**

**Use of Vertebrate Animals in Instruction or Research**

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**A. ADMINISTRATIVE DATA:**

Institute or Center:

Northeastern University

Principal Investigator: name1

Project Title: title1

Initial Submission  Renewal  or Modification  of Proposal Number: \_\_\_\_\_\_\_\_\_\_\_

David Blake

Rat

Provide a brief summary of the goals of this investigation in layman’s terms.

laySummary1

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**B. ANIMAL REQUIREMENTS:**

Species: speciesName1

Pain Category: B

Age/Weight/Size:       Sex:

Estimated Number of Animals:

Year 1:       Year 2:       Year 3:       = Total: 0

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**D.** **AIMS / OBJECTIVES:** Provide the objectives of this work. Why is this work important/interesting? How might this work benefit humans and/or animals?

aims1

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**E. RATIONALE FOR ANIMAL USE:** 1) Explain your rationale for animal use. 2) Justify the appropriateness of the species selected. 3) Justify the number of animals to be used. (Use additional sheets if necessary)

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**F. DESCRIPTION OF EXPERIMENTAL DESIGN AND ANIMAL PROCEDURES**: Briefly explain the experimental design and specify all animal procedures. This description should allow the ACUC to understand the experimental course of an animal from its entry into the experiment to the endpoint of the study. Specifically address the following: (Use additional sheets if necessary)

1. **Injections or Inoculations** (substances, e.g., infectious agents, adjuvants, etc.; dose, sites, volume, route, and schedules)
2. **Blood Withdrawals** (volume, frequency, withdrawal sites, and methodology)
3. **Minor surgical procedures** (that do not invade a body cavity)
4. **Non-Survival Surgical Procedures** (Provide details of major survival surgical procedures in Section G.)
5. **Radiation** (dosage and schedule)
6. **Methods of Restraint** (e.g., restraint chairs, collars, vests, harnesses, slings, etc.)
7. **Animal Identification Methods** (e.g., ear tags, tattoos, collar, cage card, etc.)
8. **Other Procedures** (e.g., survival studies, tail biopsies, etc.)
9. **Potentially Painful or Distressful Effects**, if any, the animals are expected to experience (e.g., pain or distress, ascites production, etc.) For Column E studies provide: 1) a description of the procedure(s) producing pain and/or distress; 2) scientific justification why pain and/or distress can not be relieved.
10. **Experimental Endpoint Criteria** (i.e., tumor size, percentage body weight gain or loss, inability to eat or drink, behavioral abnormalities, clinical symptomatology, or signs of toxicity) must be specified when the administration of tumor cells, biologics, infectious agents, radiation or toxic chemicals are expected to cause significant symptomatology or are potentially lethal. List the criteria to be used to determine when euthanasia is to be performed. Death as an endpoint must always be scientifically justified.

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1. **MAJOR SURVIVAL SURGERY** - If proposed, complete the following: Survival surgery?
2. Identify and describe the surgical procedure(s) to be performed. Include the aseptic methods to be utilized.

(Use additional sheets if necessary):

1. Who will perform surgery and what are their qualifications and/or experience?

1. Where will surgery be performed, Building and Room?

1. Describe post-operative care required, including consideration of the use of post-operative analgesics, and identify the responsible individual:

1. Has major survival surgery been performed on any animal prior to being placed on this study? Y , N

If yes, please explain:

**AALAC REPORTING**

Does this protocol utilize prolonged restraint?

Does this protocol utilize multiple major survival surgeries?

Does this protocol utilize hazardous agents?

Does this protocol utilize food or fluid regulations?

Non-centralized housing or procedure areas?